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TECHNICAL DATA SHEET

GlucoStar® C85

GlucoStar® C85 is a cold-water soluble, low viscosity, carboxymethyl polymer for use in industrial applications. It provides fermentation and enzyme resistance without the addition of preservatives. GlucoStar C85 offers a unique alternative to competitive natural and synthetic water-soluble polymers.

The low viscosity and high solubility of GlucoStar C85 make it particularly suited for use as a binder in high solids adhesive formulations. GlucoStar C85 provides moderate shear resistance and slip characteristics in adhesive formulations. In addition, the highly anionic character of GlucoStar C85 promotes flocculation to positively charged materials.

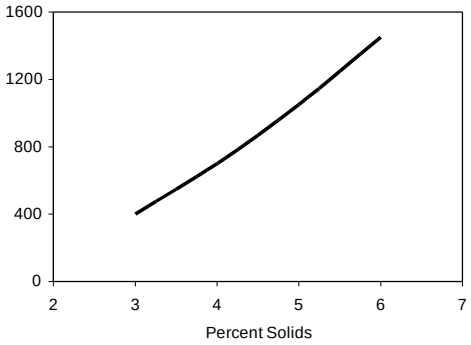
Application Properties

- Flocculation
- Lubrication
- Adhesion
- Suspension
- Fermentation Resistance
- Colloid Protection
- Film Formation
- Binding
- Water Retention
- Shear Resistance
- Thermal Stability

Appearance

GlucoStar C85 is an off- white powder. Aqueous solutions are translucent and demonstrate excellent stability.

Solids vs. Viscosity Curve



Solution Preparation

GlucoStar C85 readily solubilizes in water. Preparation of aqueous solutions requires the addition of GlucoStar C85 to the vortex of mechanically agitated water at ambient temperature. Maintain agitation for a period of about 20 minutes to ensure separation and complete hydration of individual particles. Any agglomerates that initially form will break down with normal agitation and time.

The character and amount of agitation required will vary with solids concentration of the polymer and water temperature. High solids and cold water make-up may necessitate longer agitation time.

Hydration

GlucoStar C85 exhibits a rapid hydration profile, providing short mixing times necessary to fully solubilize the polymer.

Solution Preservation

The chemical modification of GlucoStar C85 provides enhanced solution bio-stability. This feature provides an advantage where biocides cannot be used.

Storage, Handling and Safety

Because of the hygroscopic nature of GlucoStar C85, it is highly recommended that the material be stored in its original package in a dry facility. Shelf life can be affected by storage conditions such as temperature, humidity and overall surroundings of the storage area. A Safety Data Sheet is available from Chemstar and should be consulted prior to handling or use.

Availability

GlucoStar C85 is available in 50 lb multi- wall poly-lined paper bags and 2,000 lb super sacks for truckload and LTL shipments. For additional information, samples or technical assistance in using GlucoStar C85 or any other Chemstar product please contact 1-800-328-5037 or info@chemstar.com

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Typical Analysis

	GlucoStar C85
Viscosity (cP), 5% Solids LVT, 60 rpm, #3 Spindle	400 – 1,000
pH (5% Solids)	8.0 – 10.8
Moisture (%)	10 max
Bulk Density (lbs/ft^3)	30 – 40
Particle Size (% thru)	100 (-) 850 micron
Ionic Character	Highly Anionic